FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	SEE TITLE SHEET		

System Operation

The existing combination overhead/underground interconnect system between the intersections of Middlebrook Road and MD 124/Montgomery Village Avenue along MD 355 is to be upgraded. The new system will consist of all underground interconnect cable and include the following intersections:

Middlebrook Road
Gunners Branch Road/Fox Chapel Shopping Center
Scenery Drive/Gunners Branch Road [Future Traffic Control Signal]
Plummer Drive [Future Traffic Control Signal]
Wheatfield Drive [Future Traffic Control Signal]
Professional Drive
Travis Avenue [New Traffic Control Signal]
Watkins Mill Road
Christopher Avenue/IBM Entrance
Loral Entrance
MD 124/Montgomery Village Avenue

Construction Details

A. Install handhole.

B. Install 3 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.

C. Install 50–pair jelly filled telemetry cable.

D. Install 4 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.

E. Install 3 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.

F. Install 4 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.

G. Install 4 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched (Connect to conduit in bridge parapet wall).

H. Remove existing handhole.

J. Cap and abandon existing conduit.

K. Remove existing overhead interconnect cable.

L. Use existing overhead interconnect cable.

M. Use handhole installed as part of traffic signal. Refer to individual intersection plan.

N. Use conduit installed as part of traffic signal. Refer to individual intersection plan.

O. Install handhole. Coil approximately 50 ft. of interconnect cable in handhole for future use.

P. Use conduit installed as part of new bridge construction.

Equipment List "B"

Equipment to be furnished and/or installed by the Contractor.

Quantity	Unit	Description
85	EA	Handhole.
5000	LF	12–Pair self supporting telemetry interconnect cable.
100	LF	12–Pair jelly filled telemetry interconnect cable.
17000	LF	50–Pair jelly filled telemetry interconnect cable.
12000	LF	3 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
600	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.
150	LF	4 in. polyvinyl chloride (Schedule 40) electrical conduit – trenched.
1900	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit – slotted.
LS	LS	Remove existing traffic signal equipment.
LS	LS	Relocate existing interconnect cable.
200	LF	3 in. PVC riser.
15	EA	Install MCDOT supplied splice cabinet.

NOTES:

1. The Contractor shall arrange a field meeting with the MD SHA's traffic signal inspector and a MCDOT traffic signal representative to discuss maintaining interconnect throughout construction. The MCDOT representative for this project is Mr. Emil Wolanin (301) 217–2208.

2. Montgomery County will supply interconnect splice cabinets as necessary. Contact Mr. Emil Wolanin of MCDOT to coordinate the supply of these cabinets.

3. Interconnect shall be maintained to all traffic signals at all times.

4. When working at a new control cabinet the Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall label each cable.

5. When modifying an existing control cabinet the Contractor shall route all proposed signal cables to the base of the existing cabinet and properly label each cable. MCDOT forces shall be resonsible for the internal wiring of the cabinet.

6. The Contractor is to run all interconnect cable to the base of each cabinet and properly label all cables. MCDOT forces shall be responsible for performing all splices and connections of the interconnect cables.

Ultimate Traffic Control Signal Interconnect

A/E GROUP, INC.
CONSULTING ENGINEERS • PLANNERS
11409 CRONHILL DRIVE
OWINGS MILLS, MD. 21117
(410) 363–1908
A/E JOB NO: 94–264

REVISIONS

APPROVALS

CHIEF, SIGNAL DESIGN SECTION 11/9/95

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 11/13/95

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION SIGNAL # N/A

DRAWN BY: J. Dirndorfer
DES. BY: J. Dirndorfer
CHK. BY: 11/95

MD 355 from Middlebrook Rd/ to MD 124

COUNTY: MONTGOMERY

DATE: November 6, 1995
SCALE: 1" = 50'

F.A.P. NO. AC–NH–G–5113(10) C
S.H.A. NO. M 611–501–371

TS/STD. NO. **IC-GI**

SHEET NO. ____ OF ____